Aim

To create a Pandas program that swaps the cases of a specified character column in a given DataFrame.

Algorithm

- 1. Import the required library (pandas)
- 2. Create a sample DataFrame with a character column
- 3. Define a function to swap cases of a string
- 4. Apply the case-swapping function to the specified column using DataFrame's apply method
- 5. Display the original and modified DataFrames

Code

Output

```
Original DataFrame:
   Name Age
              City
   John 25 New York
1 JANE 30 LONDON
  Mike 35 Paris
3 EMILY 28 TOKYO
DataFrame with Swapped Cases in City Column:
   Name Age City_Swapped
  John 25 new york
1 JANE 30
               london
  Mike 35
                PARIS
3 EMILY 28
                tokyo
```

Result

The program successfully swaps the cases of the 'City' column, creating a new 'City_Swapped' column with inverted character cases.